

Control Room Data

Time: 1000

Unit	Power Output (MW)	Heat Input (mmBtu/hr)	Heat Input - permit limit (mmBtu/hr)	NOx (ppmvd @ 15%O ₂)	NOx - permit limit (ppmvd @ 15%O ₂)	CO (ppmvd @ 15%O ₂)	CO - permit limit (ppmvd @ 15%O ₂)	NH ₃ Flow (lb/hr)
1A	155	1642	1,915	9.2 (raw)	12 (basis)	N/A	25	234
1B	155	1678	1,915	8.8 (raw)	12 (basis)	N/A	25	264
2A	162	1762	2,048	2.6	3.5	0.2	16	157
2B	162	1758	2,048	2.6	3.5	0.9	16	126
3A	152	1688	2,048	2.1	2.5	2.3	10	140
3B	152	1666	2,048	2.3	2.5	2.0	10	166
4A	158	1634	1,915	2.2	2.5	0.9	8	not available
4B	157	1635	1,915	2.0	2.5	1.3	8	not available

Time: 1125

Unit	Power Output (MW)	Heat Input (mmBtu/hr)	Heat Input - permit limit (mmBtu/hr)	NOx (ppmvd @ 15%O ₂)	NOx - permit limit (ppmvd @ 15%O ₂)	CO (ppmvd @ 15%O ₂)	CO - permit limit (ppmvd @ 15%O ₂)	NH ₃ Flow (lb/hr)
1A	154	1623	1,915	52 (lb/hr)	12 (basis)	N/A	25	242
1B	153	1669	1,915	53 (lb/hr)	12 (basis)	N/A	25	273
2A	160	1742	2,048	2.5	3.5	0.2	16	165
2B	161	1738	2,048	2.5	3.5	1.0	16	140
3A	158	1747	2,048	2.7	2.5	2.0	10	161
3B	160	1730	2,048	2.3	2.5	2.0	10	184
4A	157	1625	1,915	2.2	2.5	0.9	8	not available
4B	156	1626	1,915	2.0	2.5	1.3	8	not available

Test Team's Analyzers Data

Time	Unit 1A			Unit 1B		
	NO _x (ppm)	CO (ppm)	O ₂ (%)	NO _x (ppm)	CO (ppm)	O ₂ (%)
1025	10.7	0.5	13.7	10.2	0.2	13.8
1040	11.0	0.5	13.7	10.6	0.2	13.8
1055	10.4	0.4	13.7	10.0	0.2	13.8
1110	10.3	0.4	13.7	10.2	0.2	13.8



INSPECTORATE

CERTIFICATE OF ANALYSIS

JOB NO.	TA15046
LAB NO.	L090128072

VESSEL	N/A	REPORT DATE	02/02/09
PRODUCT	L/S DIESEL FUEL		
TERMINAL/PORT	HINES ENERGY COMPLEX - BARTOW, FL		
SAMPLE FROM	SHORE TANK PB1 - LEVELS	DATE SAMPLED	01/28/09
SAMPLE SUBMITTED BY	INSPECTORATE AMERICA CORP. - TAMPA, FL		
ANALYSIS PERFORMED BY	INSPECTORATE AMERICA CORP. - TAMPA, FL		
CLIENT(S) REF.	NOT ADVISED		

TEST	METHOD	RESULTS
API GRAVITY @ 60 °F	D4052	
UPPER		39.4
MIDDLE		39.4
LOWER		38.7
POUNDS / GALLON API - 39.2		6.902
SPECIFIC GRAVITY @ 60 °F	D4052	
UPPER		0.8278
MIDDLE		0.8279
LOWER		0.8313
SULFUR, WT%	D4294	
UPPER		0.027
MIDDLE		0.026
LOWER		0.027
NITROGEN, PPM	D4269	
UPPER		51.7
MIDDLE		50.3
LOWER		63.1
PARTICULATE CONTAMINANT, MG/L	D6217	
UPPER		0.96
MIDDLE		0.93
LOWER		1.19

ALL SAMPLES OBTAINED IN ACCORDANCE WITH D4057

Test Lab
 INSPECTORATE AMERICA CORP



INSPECTORATE

CERTIFICATE OF ANALYSIS

JOB NO.	TA15046
LAB NO.	L090128072

VESSEL	N/A	REPORT DATE	02/02/09
PRODUCT	L/S DIESEL FUEL		
TERMINAL/PORT	HINES ENERGY COMPLEX - BARTOW, FL		
SAMPLE FROM	SHORE TANK PB1 - LEVELS	DATE SAMPLED	01/28/09
SAMPLE SUBMITTED BY	INSPECTORATE AMERICA CORP. - TAMPA, FL		
ANALYSIS PERFORMED BY	INSPECTORATE AMERICA CORP. - TAMPA, FL		
CLIENT(S) REF.	NOT ADVISED		

TEST	METHOD	RESULTS
GROSS HEAT OF COMBUSTION, BTU's / POUND	D240	
UPPER		19,797
MIDDLE		19,774
LOWER		19,725
NET HEAT OF COMBUSTION, BTU's / POUND	D240	
UPPER		18,554
MIDDLE		18,537
LOWER		18,502

ALL SAMPLES OBTAINED IN ACCORDANCE WITH D4057


INSPECTORATE AMERICA CORP



INSPECTORATE

CERTIFICATE OF ANALYSIS

JOB NO.	TA15046
LAB NO.	L090128072

VESSEL	N/A	REPORT DATE	02/02/09
PRODUCT	L/S DIESEL FUEL		
TERMINAL/PORT	HINES ENERGY COMPLEX - BARTOW, FL		
SAMPLE FROM	SHORE TANK PB1 - BOTTOM SAMPLE	DATE SAMPLED	01/28/09
SAMPLE SUBMITTED BY	INSPECTORATE AMERICA CORP. - TAMPA, FL		
ANALYSIS PERFORMED BY	INSPECTORATE AMERICA CORP. - TAMPA, FL		
CLIENT(S) REF.	NOT ADVISED		

TEST	METHOD	RESULTS
BACTERIAL GROWTH, ORGANISMS / mL	LIQUI-CULT	10 ² Slight
FUNGAL GROWTH, ORGANISMS / mL	LIQUI-CULT	10 Slight
PARTICULATE CONTAMINANT, MG/L	D6217	1.56

ALL SAMPLES OBTAINED IN ACCORDANCE WITH D4057

INSPECTORATE AMERICA CORP



INSPECTORATE

CERTIFICATE OF ANALYSIS

JOB NO.	TA15046
LAB NO.	L090128072

VESSEL	N/A	REPORT DATE	02/02/09
PRODUCT	L/S DIESEL FUEL		
TERMINAL/PORT	HINES ENERGY COMPLEX - BARTOW, FL		
SAMPLE FROM	SHORE TANK PB4 - LEVELS	DATE SAMPLED	01/28/09
SAMPLE SUBMITTED BY	INSPECTORATE AMERICA CORP. - TAMPA, FL		
ANALYSIS PERFORMED BY	INSPECTORATE AMERICA CORP. - TAMPA, FL		
CLIENT(S) REF.	NOT ADVISED		

TEST	METHOD	RESULTS
API GRAVITY @ 60 °F	D4052	
UPPER		40.8
MIDDLE		40.8
LOWER		40.9
POUNDS / GALLON API - 40.8		6.838
SPECIFIC GRAVITY @ 60 °F	D4052	
UPPER		0.8210
MIDDLE		0.8210
LOWER		0.8210
SULFUR, WT%	D4294	
UPPER		0.026
MIDDLE		0.027
LOWER		0.027
NITROGEN, PPM	D4629	
UPPER		52.2
MIDDLE		49.7
LOWER		49.9
PARTICULATE CONTAMINANT, MG/L	D6217	
UPPER		1.18
MIDDLE		2.14
LOWER		1.65

ALL SAMPLES OBTAINED IN ACCORDANCE WITH D4057

Ted Esch
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CERTIFICATE OF ANALYSIS

JOB NO.	TA15046
LAB NO.	L090128072

VESSEL	N/A	REPORT DATE	02/02/09
PRODUCT	L/S DIESEL FUEL		
TERMINAL/PORT	HINES ENERGY COMPLEX - BARTOW, FL		
SAMPLE FROM	SHORE TANK PB4 - LEVELS	DATE SAMPLED	01/28/09
SAMPLE SUBMITTED BY	INSPECTORATE AMERICA CORP. - TAMPA, FL		
ANALYSIS PERFORMED BY	INSPECTORATE AMERICA CORP. - TAMPA, FL		
CLIENT(S) REF.	NOT ADVISED		

TEST	METHOD	RESULTS
GROSS HEAT OF COMBUSTION, BTU's / POUND	D240	
	UPPER	19,825
	MIDDLE	19,850
	LOWER	19,953
NET HEAT OF COMBUSTION, BTU's / POUND	D240	
	UPPER	18,574
	MIDDLE	18,592
	LOWER	18,666

ALL SAMPLES OBTAINED IN ACCORDANCE WITH D4057

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INSPECTORATE AMERICA CORP



INSPECTORATE

CERTIFICATE OF ANALYSIS

JOB NO.	TA15046
LAB NO.	L090128072

VESSEL	N/A	REPORT DATE	02/02/09
PRODUCT	L/S DIESEL FUEL		
TERMINAL/PORT	HINES ENERGY COMPLEX - BARTOW, FL		
SAMPLE FROM	SHORE TANK PB4 - BOTTOM SAMPLE	DATE SAMPLED	01/28/09
SAMPLE SUBMITTED BY	INSPECTORATE AMERICA CORP. - TAMPA, FL		
ANALYSIS PERFORMED BY	INSPECTORATE AMERICA CORP. - TAMPA, FL		
CLIENT(S) REF.	NOT ADVISED		

TEST	METHOD	RESULTS
BACTERIAL GROWTH, ORGANISMS / mL	LIQUI-CULT	10 ² Slight
FUNGAL GROWTH, ORGANISMS / mL	LIQUI-CULT	10 Slight
PARTICULATE CONTAMINANT, MG/L	D6217	1.98

ALL SAMPLES OBTAINED IN ACCORDANCE WITH D4057


INSPECTORATE AMERICA CORP

SGS Oil, Gas and Chemicals
 SGS Port Canaveral
 8985 Columbia Road
 Cape Canaveral, FL, 32920
 U.S.A.
 Tel: (321)-784-1941
 Fax: (321)-784-1943

Date: 07/21/2011
 PROGRESS ENERGY FLORIDA INC
 HINES ENERGY COMPLEX
 7700 C R 555
 BARTOW
 UNITED STATES
 33830

Certificate of Analysis PC11-00203.003

PRODUCT DESCRIPTION:	Natural Gas	CLIENT ID:	Job# 231206 / JULY 2011
LOCATION:	Progress Energy - Bartow, FL	SOURCE ID:	Hines Plant
SAMPLE SOURCE:	Florida Gas	SAMPLE BY:	Client
SAMPLE TYPE:	Submitted Sample	RECEIVED :	07/15/2011
SAMPLED :	07/15/2011	COMPLETED :	07/20/2011
ANALYSED :	07/20/2011		

PROPERTY	METHOD	RESULT	UNITS
Ideal Gross Heating Value	ASTM D3588	1033	Btu/ft ³
Ideal Net Heating Value	ASTM D3588	931	Btu/ft ³
Ideal Relative Density	ASTM D3588	0.5953	---
Sulfur Compounds in Natural Gas and Gaseous Fuels by GC	ASTM D5504		
Hydrogen Sulfide		<0.4	ppm(mole)
Total Sulfur		0.001	ppm
Total Sulfur		0.00000	gr/100ft ³
Analysis of Natural Gas and Similar Gaseous mixtures by GC	GPA 2261		
Hexanes and Heavier		<0.010	% Mole
Nitrogen		0.306	% Mole
Methane		94.596	% Mole
Carbon Dioxide		1.476	% Mole
Ethane		2.525	% Mole
Propane		0.564	% Mole
Iso-Butane		0.184	% Mole
n-Butane		0.260	% Mole
Iso-Pentane		0.056	% Mole
n-Pentane		0.031	% Mole

The results shown in this test report specifically refer to the sample(s) tested as received unless otherwise stated. All tests have been performed using the latest revision of the methods indicated, unless specifically marked otherwise on the report. Precision parameters apply in the determination of the above results. Users of the data shown on this report should refer to the latest published revisions of ASTM D-3244; IP 367 and ISO 4259 and when utilising the test data to determine conformance with any specification or process requirement. This Test Report is issued under the Company's General Conditions of Service (copy available upon request or on the company website at www.sgs.com). Attention is drawn to the limitations of liability, indemnification and jurisdictional issues defined therein. This report shall not be reproduced except in full, without the written approval of the laboratory.

Authorised Signatory



John Huber-Laboratory Supervisor
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Date: 07/21/2011
 PROGRESS ENERGY FLORIDA INC
 HINES ENERGY COMPLEX
 7700 C R 555
 BARTOW
 UNITED STATES
 33830

Certificate of Analysis PC11-00203.004

PRODUCT DESCRIPTION:	Natural Gas	CLIENT ID:	Job# 231206 / JULY 2011
LOCATION:	Progress Energy - Bartow, FL	SOURCE ID:	Hines Plant
SAMPLE SOURCE:	Gulfstream	SAMPLE BY:	Client
SAMPLE TYPE:	Submitted Sample	RECEIVED :	07/15/2011
SAMPLED :	07/15/2011	COMPLETED :	07/20/2011
ANALYSED :	07/20/2011		

PROPERTY	METHOD	RESULT	UNITS
Ideal Gross Heating Value	ASTM D3588	1027	Btu/ft ³
Ideal Net Heating Value	ASTM D3588	925	Btu/ft ³
Ideal Relative Density	ASTM D3588	0.5806	---
Sulfur Compounds in Natural Gas and Gaseous Fuels by GC	ASTM D5504		
Hydrogen Sulfide		<0.4	ppm(mole)
Total Sulfur		0.000	ppm
Total Sulfur		0.00000	gr/100ft ³
Analysis of Natural Gas and Similar Gaseous mixtures by GC	GPA 2261		
Hexanes and Heavier		<0.010	% Mole
Nitrogen		<0.010	% Mole
Methane		96.522	% Mole
Carbon Dioxide		0.987	% Mole
Ethane		1.797	% Mole
Propane		0.384	% Mole
Iso-Butane		0.120	% Mole
n-Butane		0.150	% Mole
Iso-Pentane		0.023	% Mole
n-Pentane		0.017	% Mole

****End of Analytical Results****

The results shown in this test report specifically refer to the sample(s) tested as received unless otherwise stated. All tests have been performed using the latest revision of the methods indicated, unless specifically marked otherwise on the report. Precision parameters apply in the determination of the above results. Users of the data shown on this report should refer to the latest published revisions of ASTM D-3244; IP 367 and ISO 4259 and when utilising the test data to determine conformance with any specification or process requirement. This Test Report is issued under the Company's General Conditions of Service (copy available upon request or on the company website at www.sgs.com). Attention is drawn to the limitations of liability, indemnification and jurisdictional issues defined therein. This report shall not be reproduced except in full, without the written approval of the laboratory.

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